Rule WLM004: CPExpert believes too many service policy changes occurred

Finding: CPExpert has detected that the service policy was changed relatively frequently.

Impact: This finding should be viewed a MEDIUM IMPACT, or HIGH IMPACT on the performance of your computer system. The level of impact will depend upon (1) the number of changes and (2) whether service classes were altered in the new service policy.

Logic flow: The following rule causes this rule to be invoked:
Rule WLM003: The service policy was changed

Discussion: Please refer to Rule WLM003 for a discussion of service policy changes and the harmful effect on system performance of the changes.

CPExpert accumulates the number of service policy changes. CPExpert produces Rule WLM004 if the number of changes per day is greater than the **POLCHG** guidance variable in USOURCE(WLMGUIDE). The default value for the POLCHG guidance variable is 3, indicating that no more than 3 policy changes should occur during any interval being analyzed by CPExpert, or 3 changes per day.

The following example illustrates the output from Rule WLM004:

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RULE WLM004:  CPEXPERT BELIEVES TOO MANY SERVICE POLICY CHANGES OCCURRED

   CPExpert has detected that the service policy was changed 6 times
   during the interval being analyzed.  The service policy should be
   infrequently changed.  Policy changes cause the Workload Manager to be
   less effective in managing system resources to meet performance goals
   (goals may change, historical data must be discarded and new data must
   be collected before decisions can be made, etc.).  Additionally, RMF
   data become less reliable because irregular measurement intervals are
   created when service policy changes occur.  CPExpert suggests that the
   number of service policy changes be reduced.
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Suggestion: Service policy changes should occur relatively infrequently, as any service policy change causes some adverse effect on performance simply because the policy changed. A relatively large number of changes normally should be cause for management action to reduce the changes.

Rule WLM004.1

CPExpert realizes that there may unique situations in which management policy dictates that the service policy should change more often than the guidance variable. You can change the guidance to CPExpert if you have such an unusual situation.   The **POLCHG** guidance variable in USOURCE(WLMGUIDE) can be used to provide guidance to CPExpert regarding the number of service policy changes you consider acceptable.

Reference: MVS Planning: Workload Management
          MVS/ESA(SP 5):   Chapter 5: Defining Service Policies
          OS/390 (V1R1):   Chapter 5: Defining Service Policies
          OS/390 (V1R2):   Chapter 5: Defining Service Policies
          OS/390 (V1R3):   Chapter 5: Defining Service Policies
          OS/390 (V2R4):   Chapter 5: Defining Service Policies
          OS/390 (V2R5):   Chapter 5: Defining Service Policies
          OS/390 (V2R6):   Chapter 5: Defining Service Policies
          OS/390 (V2R7):   Chapter 5: Defining Service Policies
          OS/390 (V2R8):   Chapter 5: Defining Service Policies
          OS/390 (V2R9):   Chapter 5: Defining Service Policies
          OS/390 (V2R10):   Chapter 5: Defining Service Policies
          z/OS (V1R1):   Chapter 5: Defining Service Policies
          z/OS (V1R2):   Chapter 5: Defining Service Policies
          z/OS (V1R3):   Chapter 5: Defining Service Policies
          z/OS (V1R4):   Chapter 5: Defining Service Policies